

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications INVENTORY SHEET

WORK ORDER # 0910023B

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Kara McKiernan/ Documer	at Control	10/22/09
(Signature) Kara Wekiernan/ Document		(Date)



WORK ORDER #: 0910023B

Work Order Summary

CLIENT:

Mr. Taeko Minegishi

BILL TO:

Accounts Payable

Environmental Health & Engineering,

Environmental Health & Engineering, Inc.

Inc. 117 Fourth Avenue

117 Fourth Avenue

Needham, MA 02494

Needham, MA 02494

PHONE:

800-825-5343

P.O. #

16512

FAX:

31A

32A

781-247-4305

PROJECT #

16512

DATE RECEIVED: DATE COMPLETED: 10/01/2009 10/21/2009

ABC

Lab Blank

CONTACT:

ATL Applications

ATL Applications

Ausha Scott

FRACTION# NAME **TEST** 17A 101798 **ATL Applications** 18A 101799 **ATL Applications** 19A 101800 **ATL Applications** 20A 101829 **ATL Applications** 21A 101824 **ATL Applications** 22A **ATL Applications** 101825 23A 101826 **ATL Applications** 23AA 101826 Lab Duplicate **ATL Applications** 24A **ATL Applications** 101827 25A 101828 **ATL Applications ATL Applications** 26A 101915 27A 101916 **ATL Applications ATL Applications** 28A(cancelled) 101917 28AA 101917 Lab Duplicate **ATL Applications** 29A 101918 **ATL Applications** 30A 101919 **ATL Applications**

Continued on next page



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CLIENT:

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BILL TO: Accounts Payable

Inc.

Environmental Health & Engineering,

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117 Fourth Avenue

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Needham, MA 02494

Needham, MA 02494

PHONE:

800-825-5343

P.O. # 16512

FAX:

781-247-4305

PROJECT #

16512

DATE RECEIVED:

10/01/2009

DATE COMPLETED:

10/21/2009

CONTACT:

Ausha Scott

FRACTION#

NAME

TEST

32B 33A Lab Blank CCV

ATL Applications ATL Applications

CERTIFIED BY:

Linda d. Truman

DATE: 10/21/09

Laboratory Director



LABORATORY NARRATIVE Ozone by Radiello 172 Environmental Health & Engineering, Inc. Workorder# 0910023B

Fifteen Radiello 172 (Ozone) samples were received on October 01, 2009. The procedure involves reaction of 4-pyridylaldehyde with 3-methyl-2-benzothiazolinone hydrazone to yield the corresponding azide. The absorbance is then measured at 430 nm using a spectrophotometer. Results are reported in uG and uG/m3.

Sampling rate of 24.6 mL/min was provided by the manufacturer.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Results were calculated based on 25 deg C without temperature correction. The actual exposure time was used to calculate sample concentrations and reporting limits.

An exposure time of 20160 minutes was used for the QC samples.

All media used for the sampling were supplied by the client. Blank subtraction was not performed on the sample results since the media used for Method Blanks may be from a different lot than the media used for the samples.

Due to laboratory error, sample 101828 could not be located for analysis. Therefore, no results were reported for sample 101828.

The % RPD for the duplicate analysis of samples 101826 and 101917 is at 18% and 16% respectively.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector



r1-File was requantified for the purpose of reissue

Sample Results and Raw Data

ATL Application # 62 for RAD 172 (Ozone) AIR TOXICS LTD.

Spectrophotometer

Field Sample I.D.	Lab Sample I.D.	Collection Date	Analysis Date	Dilution	Reporting. Limit	Reporting. Limit	Amount	Amount (ug/m3)
101798	0910023B-17A	9/29/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101700	00400000 484	Oppopop	AO IE POOD				•	
101739	ARI-90200160	GOOZIGZIG	6007/6/01	1.00	0.64	13	8	8
101800	0910023B-19A	NA	10/5/2009	1.00	0.64	13	B	8
101829	0910023B-20A	¥	10/5/2009	1.00	0.64	1.3	8	N
101824	0910023B-21A	9/29/2009	10/5/2009	1.00	0.64	13	8	8
10465E	00400000 004	Oppopopo	Anichon					
101023	W77-06-2001 GD	GOOTIETIE	GOOZICIOI	1.00	U.04	1.3	3	3
101826	0910023B-23A	9/29/2009	10/5/2009	1.00	0.6	13	5.6	1
101826 Lab Duplicate	0910023B-23AA	9/29/2009	10/5/2009	1.00	0.64	1.3	6.7	13
101827	0910023B-24A	9/29/2009	10/5/2009	1.00	0.64	13	8	B
· · · · · · · · · · · · · · · · · · ·				The County of th		では、 では、 では、 では、 では、 では、 では、 では、		
101915	0910023B-26A	9/30/2009	10/5/2009	1.00	0.64	13	3	8
101916	0910023B-27A	9/30/2009	10/5/2009	1.00	0.64	1.3	B	B
101917	0910023B-28A	9/30/2009	10/5/2009	1.00	0.6	1.3	5.6	11
101917 Lab Duplicate	0910023B-28AA	9/30/2009	10/5/2009	1.00	0.64	1.3	6.6	3
101918	0910023B-29A	9/30/2009	10/5/2009	1.00	0.64	13	B	8
101919	0910023B-30A	9/30/2009	10/5/2009	1.00	0.64	13	8	8
ABC	0910023B-31A	NA	10/5/2009	1.00	0.64	1.3	8	N
Method Blank	0910023B-32A	NA	10/5/2009	1.00	0.64	1.3	8	N
Method Blank	0910023B-32B	A	10/5/2009	1.00	0.64	1.3	8	ND
CCV	0910023B-33A	N.	10/5/2009	1.00	0.64	1.3	%Rec	%Rec 104

COMMENTS: 1. NA=Not Applicable
2. ND=Not Detected
3. Exposure time of 20160 minutes was assumed for the QC samples.

Background subtraction not performed.

Sampling T (deg C)	Sampling Rate (mL/min))	Workorder #: 0910023B
25 Typically 25	24.6 Typically 24.6 for Ozone	

	•	o . ypicony	OFFICE					
Sampling T (deg C)	2	25 Typically 25				(Abs-Y-int)xDF	Conc (ug) x 1000000	Low PointxDF
Volume (mL)		5 Typically 5 for Ozone	one			Slope	Q x Duration	
Date of Analysis:	10/5/200	0						
Corrected Q	24.6	Ozone taking into account Temp	account Tem	0				
LabSampleID	Client	Date of Collection	Abs	Duration (min)	DF	Ozone Conc (ug)	Conc (ug/m3)	RL(ug)
17A	101798	9/29/2009	0.028	20160	1.00	0.105737484	0213	0.638
18A	101799	9/29/2009	0.034	20160	1.00	0.161358791	0.325	0.638
19A	101800	₹	0.027	20160	1.00	0.096467267	0.195	0.638
20A	101829	¥	0.019	20160	1.00	0.022305524	0.045	0.638
21A	101824	9/29/2009	0.028	20160	1.00	0.105737484	0213	0.638
22A	101825	9/29/2009	0.033	20160	1.00	0.152088574	0.307	0.638
23A	101826	9/29/2009	0.622	20160	1.00	5.612246867	11.316	0.638
23AA	101826 Lab Duplicate	9/29/2009	0.738	20160	1.00	6.687592133	13.485	0.638
24A	101827	9/29/2009	0.025	20160	1.00	0.077926831	0.157	0.638
26A	101915	9/30/2009	0.029	20160	1.00	0.115007702	0.232	0.638
27A	101916	9/30/2009	0.025	20160	1.00	0.077926831	0.157	0.638
28A	101917	9/30/2009	0.621	20160	1.00	5.602976649	11.298	0.638
28AA	101917 Lab Duplicate	9/30/2009	0.725	20160	1.00	6.567079302	13.242	0.638
29A	101918	9/30/2009	0.029	20160	1.00	0.115007702	0.232	0.638
30A	101919	9/30/2009	0.047	20160	1.00	0.281871623	0.588	0.638
AIR.	ABC	₹	0.019	20160	1.00	0.022305524	0.045	0.638
					1.00	-0.153828614	#DIV/0!	0.638
					1.00	-0.153828614	#DIV/0!	0.638
					1.00	-0.153828614	#DIV/0!	0.638
					1.00	-0.153828614	#DIV/0!	0.638
					1.00	-0.153828614	#DIV/0!	0.638
					1.00	-0.153828614	#DIV/0!	0.638
32A	Method Blank	A	0.011	20160	1.00	-0.051856218	-0.105	0.638
328	Method Blank	N	0.01	20160	1.00	-0.061126436	-0.123	0.638
	Method Blank				1.00	-0.153828614	#DIV/0!	0.638
33A	CCV	X	0.302	20160	1.00	2.645777166	5.335	0.638
		3	2002	00T07	1.00	00T///C#0.7).500

QC Duration 20160

CCV Spike Amt 2.5536

1.287	#DIV/O!	1.287	1.287	#DIV/0!	#DIV/0!	#DIV/0i	#DIV/0i	#DIV/0!	#DIV/0!	1287	1.287	1287	1287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1287	1.287	1.287	RL (ug/m3)			
2.645777166	ND	ND	ND	ND	8	N	ND	N	8	ND	ND	ND	6.567079302	5.602976649	8	ND	ND	6.687592133	5.612246867	ND	ND	ND	ND	ND	ND	Result (ug)			
5.334916533 104	#DIV/0! %Rec	ND	ND	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	ND	ND	ND	13.24178786	11.29778167	ND	ND	ND	13.48478863	11.31647403	ND	ND	ND	N	ND	ND	Result (ug/m3) %Rec			
4																		hand entry		114	57	22.8	11.4	5.7	0	ug/mL ug Ozone	4-PA	ug/ml*0.224*0.5mL	4-PA
																				12.768 1.388	6.384 0.716	2.5536 0.298	1.2768 0.152	0.6384 0.077	0	absorbance		1*0.5mL	
																							25	Y-int	Slope				
											,												0.999775934	0.016593851	0.107872331				

QC Results and Raw Data

Spectrophotometer Logbook

Analyst: M. SKidmore

@Air Toxics Ltd.

Logbook#: 1875

Work Order: 0910023B

Date: 10/5/04

Method: Rad 172

Wavelength: 430 nm

Stand	lard ID	Concentration	ABS
		(concentration of 4-PA)	
Level 1 1898	-74-E	5.7 mg/mL	0.077
Level 2	1 -D	11, if ug/ml	0.152
Level 3	-C	22.8 ug/ml	0,208
Level 4	-B	57 hg/m	0.716
Level 5	V -/A	(14 mg/m)	1, 388
ICV 1858	-76	22,8 mg/ML	0,295

b = 0,0166

ICV % Recovery = 10 \

Fraction	Dilution	ABS	Sample ID	Sample Volume	Comments
17A	1,00	0,028	101798	5,0 ml	
18A [9A	ſ	0.034	101799	1	
194		0,027	101800	ı	
20 A		0,019	101829	,	
21 A		0,028	101824		
22 A		0,033	101825		
23A 23AA 24A 26A 27A		0.622	101826		
23AA		0.738	101826		
24A		0,029	101821		
2GA		0,029	101828 101915		
27A		0,025	101916		ı
08 k		0,621	101917		
28 AA		0.725	101917		
294		0,029	101918.		
30A		0.047	101919		
31A		0,019	ABC		
BIK		0,011	NA		Cot: 09/65
28 AA 29 A 30 A 31 A BIK GK LCS		0,10			1
us		0,274	1		16
CCV		0,302	N/A		
		Angeles of State of S	C STREET, SOUR PROFILED THE STREET, SOURCE STREET, SOURCE STREET, SOURCE STREET, SOURCE STREET, SOURCE STREET,	•	
				- MJS 10/	5/09

Procedure:

Spectrophotometer Standard Preparation Log	@Air Toxics Ltd.	Log Book #: <u>1858</u>
Standard ID: 1858-73 Project: Rad 172 MBTH Solution Analyst: M. SKICMOYE Preparation Date: 10/5/09 Expiration Date: 10/5/09		/H2504 504 10+19339677
Procedure/Comments: Dissolve 2,5 g of hydrazone hydrochloride hydrate ERIA) into Sooml DI H20 (oncentrated sulfuric acid, (1476-	and add 2.	sml of
		A TO REMARKS THE PARTY OF THE P
	T. V.	
		
		1

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		The second secon
april 31 20/5/00	1	10/7/09
Page 73 Signed Date	Reviewed	Date Rev. 8/97

@Air Toxics Ltd.	Log Book #: 1858
Solvent: D.T. Solvent Lot #:	H20 P/A
V	
6 (1476-1103, located I 1:2, 1:5, 1:10, 1:20. Sto	
$I_2O = 57 \mu g/mL$.	
$I_2O = 22.8 \ \mu g/mL.$	No. of the Contract of the Con
$H_2O = 11.4 \mu g/mL$	-
FD.I. $H_2O = 5.7 \mu g/mL$ final volume of 0.5 ml	
stir and let stand for 1	hour (cover
one.	
	·
	MIS
	10/5/04
Reviewed	10/1/09 Date Rev. 8/97
	Solvent Lot #:

Spectrophotometer Standard Preparation Log	@Air Toxics Ltd.	Log Book #: <u>1858</u>
Standard ID: <u>1858-76</u>	Solvent: DT +	. 0
Project: ICV RADITE	Solvent Lot #:	
Analyst: $C_{\bullet}(aF)$		
Preparation Date: 10/5/09		
Expiration Date: 10/5/09		
Procedure/Comments:	***************************************	·
Dissolve 20 μl of 4-Pyridine-carboxaldehyde, 97% (1	476-1103, located F22F	I) in 200mL
D.I. H_2O . Stock Solution = 114 μ g/mL. From this so	lution prepare a dilution	at:
———— 1:5) 100 μ l Pyridine solution with 400 μ l of D.I. H ₂ O	= 22.8 μ g/mL.	
Then add 4.5 mL of MBTH solution to each level, sti with parafilm). Then read absorbance at 430 nm.	r and let stand for 1 hou	r (cover
Note: 1 μg of 4-pyridylaldehyde = 0.224 μg of ozone		
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	V-11-11-V-11-11-11-11-11-11-11-11-11-11-	
	<u> </u>	1460
	CACC 10	15/09
Page 76 Signed Date	Reviewed	10/1/09 Date Rev. 8/97

Shipping/ Receiving Documents



180 Blue Ravine Road, Suite B Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020 Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY:	Environmental Health & Engineering, Inc.	
ATTENTION:	Mr. Taeko Minegishi	
FAX #:	781-247-4305	
FROM:	Sample Receiving	
Workorder #:	0910023B	
# of pages (Including Cover):	4	

10/22/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Ausha Scott at 916-985-1020.**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

10910023 DATE: 9/ Health & Engineering, Inc. FROM: Environmental Health and Engineering, Inc. 117 Fourth Avenue Needham, MA 02494-2725 Please send invoices to ATTN: Accounts Payable Please send reports to ATTN: Data Coordinator In all correspondence regarding this matter, please refer to EH&E Project # _____ The cost of this analysis will be covered by EH&E Purchase Order # ______ For EH & E Data Coordinator - URGENT DATA SAMPLE ID SAMPLE TYPE **ANALYTICAL METHOD/NUMBER** OTHER:Time Date/Vol. 01800 rssive Special instructions; Standard turn around time ☐ Rush by date/time ☐ Fax results 781-247-4305 Electropic transfer - datacoordinator@eheinc.com ☐ RETURN SAMPLES Additional report recipient MFrag ala (N e hein C. Cem Each signatory please return one copy of this form to the above address That of Environmental Health & Engineering, Inc. Relinquished by: Received by: _____ _of (company name) ________ Date: 10/1/6 Relinquished by: _____of (company name) _____ Date: _____ Received by: ______of (company name) ______Date: _____ Relinquished by: ______of (company name) ______Date: _____ Received by: ______of (company name) _____ Date: _____ Lab Data Received by: ________of Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

Environmental

184 19A

20A 21A 224 23A 241 25A 26A 27A 28A 290 30A 31A



SAMPLE RECEIPT SUMMARY

WORKORDER 0910023B

Date Promised: 10/12/09 11:59 pm Client Phone

Date Completed: 10/21/09 Mr. Taeko Minegishi 800-825-5343 Date Received: 10/1/09 Environmental Health & PO#: 16512 Engineering, Inc. Fax

117 Fourth Avenue Project#: 16512 781-247-4305 Needham, MA 02494

Total \$: \$ 775.00 Sales Rep: TL

Logged By: MG

Fraction	Sample #	<u>Analysis</u>	Collected	Amount\$
17A	101798	ATL Applications	9/29/2009	\$50.00
18A	101799	ATL Applications	9/29/2009	\$50.00
19A	101800	ATL Applications	NA	\$50.00
20A	101829	ATL Applications	NA	\$50.00
21A	101824	ATL Applications	9/29/2009	\$50.00
22A	101825	ATL Applications	9/29/2009	\$50.00
23A	101826	ATL Applications	9/29/2009	\$50.00
23AA	101826 Lab Duplicate	ATL Applications	9/29/2009	\$0.00
24A	101827	ATL Applications	9/29/2009	\$50.00
25A	101828	ATL Applications	9/29/2009	\$50.00
26A	101915	ATL Applications	9/30/2009	\$50.00
27A	101916	ATL Applications	9/30/2009	\$50.00
28A(cancelle	ed 101917	ATL Applications	9/30/2009	\$0.00
28AA	101917 Lab Duplicate	ATL Applications	9/30/2009	\$0.00
29A	101918	ATL Applications	9/30/2009	\$50.00
30A	101919	ATL Applications	9/30/2009	\$50.00
31A	ABC	ATL Applications	NA	\$50.00
32A	Lab Blank	ATL Applications	NA	\$0.00
32B	Lab Blank	ATL Applications	NA	\$0.00
33A	CCV	ATL Applications	NA	\$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.

Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO: Accounts Payable

Environmental Health & Engineering, Inc.

117 Fourth Avenue Analysis Code: Other GC

Needham, MA 02494

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172



SAMPLE RECEIPT SUMMARY Continued

Client

Phone

Date Promised:

Date Completed:

Date Received:

Fax

PO#:

Project#:

Sales Rep:

Total \$: \$ 775.00

Logged By: MG

Fraction

Sample #

Analysis

Collected

Amount\$

Misc. Charges eCVP (15) @ \$5.00 each.

\$75.00

Note:

Samples received after 3 P.M. PST are considered to be received on the following work day.

Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO:

Accounts Payable

Environmental Health & Engineering, Inc.

117 Fourth Avenue

Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Other Records



Method: ATL Application #62 Ozone-Radiello 172

CAS Number	Compound	Rpt. Limit (ug)
10028-15-6	Ozone	1.0

@Air Toxics Ltd.

			DATA REVIEW CHECKLIST Work Order #: 0910023 B		
\mathbf{A}_1	A ₂ R T	M Q	AND THE PROPERTY OF THE PROPER		
		-0	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)		
			The final report has the correct reporting list, special units, and header info.		
	12/ 0 /		Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)		
			Sample Discrepancy Report (SDR) is completed		
			Corrective Action issued - # 9A6 C646398		
П	ם ם ם	Ы	Unusual circumstances have been documented in the notes section below		
	-	LUN	MEN validation report present and initialed CIRCLE (YES NO)		
			Lab Blank, CCV, LCS and DUP met QC criteria		
			Hold time is met for all samples		
	D 0/4	400	Appropriate data qualifier flags are applied		
		D 0	Manual integrations for samples and QC are properly documented		
			Samples analyzed within the project or method specific clock		
_		_	Retention times have been verified		
			Appropriate ICAL(s) included		
	0 0	9 0	At least one result per sample is verified against the target quant sheets/raw data		
			Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can		
			pressurization(s)) Correct amount of sample analyzed (i.e. sample not over-diluted)		
	E - 0		Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)		
***************************************	<i>1</i> 2 □		TICs resemble reference spectra		
	(0)		TICs between duplicate samples are consistent		
		00	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)		
			Data for multiple analyses of sample(s) has been evaluated for comparability of results		
	B		Special units for all samples in the final report are correctly calculated		
	/型/ 口	2	Manually entered results checked (i.e. TPH/NMOC)		
			Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)		
			Chain of Custody scanned correctly		
	-1		Verify sample id's vs. chain of custody Date MDL(s) performed per instrument(s) 9/22/09		
			Samples pressurized w/ appropriate gas (N ₂ or He) Other (i.e. Tedlar bag, cartridge, sorbent)		
	□ ₽ }		Final pressure consistent with canister size (6L vs. 1L)		
	4/40 0		Verify receipt pressures Verify canister ID #'s		
			Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)		
			MDL date(s) present for all instruments utilized		
	0 0,	40	Client LUMEN report reviewed for accuracy and completeness		
Notani	to include	wetles as	umles with 04/00 much laws. Blanks with mostitus hits accounting at a		
	RPD		nples with QA/QC problems, Blanks with positive hits, narratives, etc.) 9.A $> \sqrt{89}$ 6		
<u>A/R:</u>					
	RPD	28A	AA = 16%		
	25A-	Samo	le not found - see CAR		
	20/1	Jamp	le not tound - see CAR		
M/Q:					
	A ₁ /A	•	R/T M Q		
(A	nalytical Rev				
A_1 :		,	RMalol 9 00/21/09		
A ₂ :			<u>T:</u>		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Note (2): Management reviewer and reporting reviewer must be separate individuals. Rev. 02/20/09